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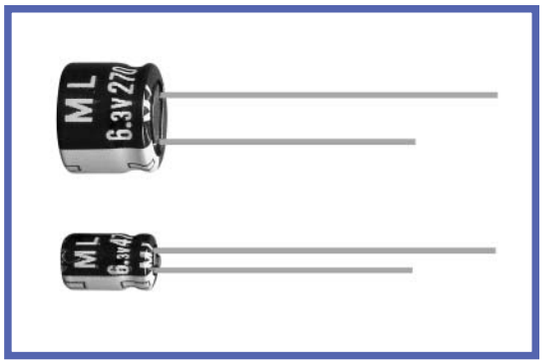
Rubycon

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS ML

ML SERIES

105°C Long Life, 5mm 9mm Height.



◆FEATURES

- Load Life : 105°C 3000～5000hours.
- RoHS compliance.

◆SPECIFICATIONS

Items	Characteristics
Category Temperature Range	−40～+105°C
Rated Voltage Range	6.3～50V.DC
Capacitance Tolerance	±20% (20°C, 120Hz)
Leakage Current(MAX)	I=0.01CV or 3 μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V)
(tanδ) Dissipation Factor(MAX)	(20°C, 120Hz)

Rated Voltage(V)	6.3	10	16	25	35	50
tan δ	0.40	0.35	0.30	0.25	0.20	0.20

Endurance

105°C
After life test with rated ripple current at conditions stated in the table below, the capacitors shall meet the following requirements.

Capacitance Change	Within ±30% of the initial value.
Dissipation Factor	Not more than 300% of the specified value.
Leakage Current	Not more than the specified value.

Case Size	Life Time(hrs)
L=5mm	3000
L≧ 7mm	5000

Low Temperature Stability Impedance Ratio(MAX) (120Hz)

Rated Voltage(V)	6.3	10	16	25	35	50
Z(−25°C)/Z(20°C)	6	4	4	3	2	2
Z(−40°C)/Z(20°C)	12	10	8	6	4	4

◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

Frequency (Hz)		60(50)	120	500	1k	10k ≦
Coefficient	1 μF	0.50	1.0	1.20	1.30	1.50
	2.2～6.8 μF	0.65	1.0	1.20	1.30	1.50
	10～82 μF	0.80	1.0	1.20	1.30	1.50
	100～1000 μF	0.80	1.0	1.10	1.15	1.20

◆PART NUMBER

□□□	ML	□□□□□	□	□□□	□□	D×L
Rated Voltage	Series	Rated Capacitance	Capacitance Tolerance	Option	Lead Forming	Case Size

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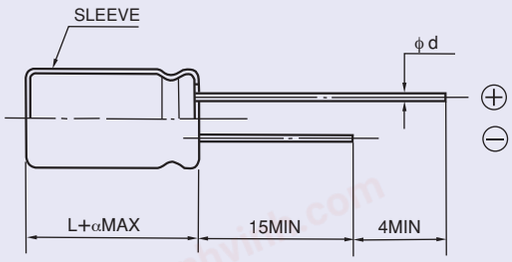
◆DIMENSIONS

(mm)



φD	4	5	6.3	8×5	8×7	8×7.5	8×9	10
φd	0.45						0.6	
F	1.5	2.0	2.5		3.5			5.0
α	L=7 :α=1.0 L=5 :α=1.5			1.5	1.0		2.0	

◆STANDARD SIZE

Size φ D×L(mm), Ripple Current (mA r.m.s./105℃, 120Hz)

WV (V.DC) / Cap(μF)	6.3 (0J)		10 (1A)		16 (1C)		25 (1E)		35 (1V)		50 (1H)	
	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
1											4×5	8
2.2											4×5	11
3.3											4×5	14
4.7											4×7	23
6.8									4×5	17	5×5	25
10							4×5	18	4×7	28	5×7	30
12									5×5	34	6.3×5	37
15							4×7	35				
18					4×5	20			5×7	48	6.3×7	50
22			4×5	22	4×7	40	5×5	42			8×5	62
27	4×5	25					5×7	57	6.3×5	58		
33			4×7	43	5×5	45					8×7	75
39					5×7	65			6.3×7	76		
47	4×7	47	5×5	48			6.3×5	65	8×5	80		
56	5×5	50	5×7	68			6.3×7	85	8×7	105	8×7.5	115
68					6.3×5	70						
82	5×7	75					8×5	100			8×9	160
100			6.3×5	75	6.3×7	95	8×7	112	8×7.5	125		
120	6.3×5	80	6.3×7	100	8×5	110					10×9	315
150					8×7	125	8×7.5	140	8×9	180		
180	6.3×7	110	8×5	120								
220	8×5	125	8×7	160	8×7.5	170	8×9	190	10×9	360		
270	8×7	165										
330			8×7.5	180	8×9	195	10×9	450				
470	8×7.5	190	8×9	210	10×9	460						
560	8×9	230										
680			10×9	470								
1000	10×9	480										